

TAT-DEF-Elk-1 acetate

Chemical Properties

CAS No. :

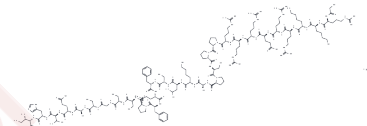
Formula: C157H263N57O42

Molecular Weight: 3621.19

Store at low temperature, Keep away from moisture

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	TAT-DEF-Elk-1 acetate is a cell-penetrating peptide inhibitor of ERK1/2 kinase phosphorylated Elk-1 with antitumor and antidepressant activity. TAT-DEF-Elk-1 acetate inhibits the phosphorylation of Elk-1, inhibits Elk-1 nuclear translocation, and can be used to study depression.
Targets(IC50)	Others
In vitro	Phosphorylation of Elk-1 on Ser383/389 has dual functions, triggering Elk-1 nuclear translocation and SRE-dependent gene expression; TAT-DEF-Elk-1 (5 μ M; 2 h) treatment significantly inhibited c - Fos, Zif268, and JunB, but has no effect on c-Jun expression; TAT-DEF-Elk-1 (5-10 μ M; 1 hour) specifically inhibits glutamate-induced elk-1 activation without interfering with ERK , MSK-1 or CREB phosphorylation. [1]
In vivo	TAT-DEF-Elk-1 (ip; 1 mg/kg; daily; 14 days) reflected antidepressant efficacy in mice, reducing immobility similar to the reference antidepressants fluoxetine and desipramine (DMI).[2]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2762 mL	1.3808 mL	2.7615 mL
5 mM	0.0552 mL	0.2762 mL	0.5523 mL
10 mM	0.0276 mL	0.1381 mL	0.2762 mL
50 mM	0.0055 mL	0.0276 mL	0.0552 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Lavaur J, et al. A TAT-DEF-Elk-1 peptide regulates the cytonuclear trafficking of Elk-1 and controls cytoskeleton dynamics. J Neurosci. 2007 Dec 26;27(52):14448-58.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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